

**Notice of Allowability**

Application No.

10/661,385

Examiner

Dung V. Nguyen

Applicant(s)

SEO ET AL.

Art Unit

3723

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 29 November 2005.
2. ☒ The allowed claim(s) is/are 1-17, 19-27, 30 and 34-44.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 8/10/05 & 11/29/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
**DUNG VAN NGUYEN**  
**PRIMARY EXAMINER**

### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: prior art of record considered as a whole alone or in combination neither anticipates nor renders obvious, chuck assembly including one or more chucks, each chuck having a jet stream opening disposed therethrough for allowing the jet streams to pass after cutting through the substrate, each chuck including a vacuum platform and a vacuum manifold disposed underneath the vacuum platform, the vacuum platform being configured to receive the substrate and smaller component parts, thereon, the vacuum platform including a plurality of vacuum openings, each of which is configured to apply a vacuum to the backside of the substrate and each of the smaller component parts formed therefrom, the vacuum manifold being configured to supply a vacuum to each of the openings so as to retain the substrate and each of the smaller component parts on the surface of the vacuum platform, in combination with the rest of the limitations in claim 1; prior art of record considered as a whole alone or in combination neither anticipates nor renders obvious, an inlet, a plurality of outlets, a slurry receiving channel and a plurality of slurry distribution channels, the plurality of slurry distribution channels being configured to receive the slurry from the inlet, and the plurality of slurry distribution channels being configured to distribute the slurry to the plurality of outlets, and wherein individual ones of the plurality of nozzles each are fluidly coupled to an individual outlet; in combination with the rest of the limitations in claim 10; prior art of record considered as a whole alone or in combination neither anticipates nor renders obvious, the vacuum passageways including vacuum openings positioned in multiple rows and a vacuum

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channel disposed underneath each row of vacuum openings, in combination with the rest of the limitations in claim 11; prior art of record considered as a whole alone or in combination neither anticipates nor renders obvious, each of the chucks includes a vacuum platform and a vacuum manifold disposed underneath the vacuum platform, the vacuum platform having a top surface on which the backside of the singulated substrate and the singulated substrate parts cut therefrom are placed before, during and after jet stream singulation, the vacuum platform including a plurality of vacuum openings each of which corresponds to one of the singulated substrate parts, the vacuum manifold including a plurality of vacuum channels that are fluidly coupled to the vacuum openings, the vacuum openings and the vacuum channels working together to form the vacuum passageways that distribute a suction force to the backside of the unsingulated substrate and the singulated substrate parts cut therefrom, in combination with the rest of the limitations in claim 13; prior art of record considered as a whole alone or in combination neither anticipates nor renders obvious, a base configured support the chucks in their desired position relative to each other, the base including a pair of voids, one of the voids being positioned underneath the first chuck, another of the voids being positioned underneath the second chuck, the voids coinciding with the cutting slots, the voids providing a space through which the jet stream passes after traveling through the cutting slots, in combination with the rest of the limitations in claim 19.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

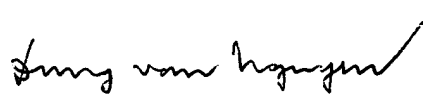
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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung V. Nguyen whose telephone number is 571-272-4490. The examiner can normally be reached on M-F, 7:00-3:30.

4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J. Hail can be reached on 571-272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
**DUNG VAN NGUYEN**  
**PRIMARY EXAMINER**

DVN  
January 17, 2006